

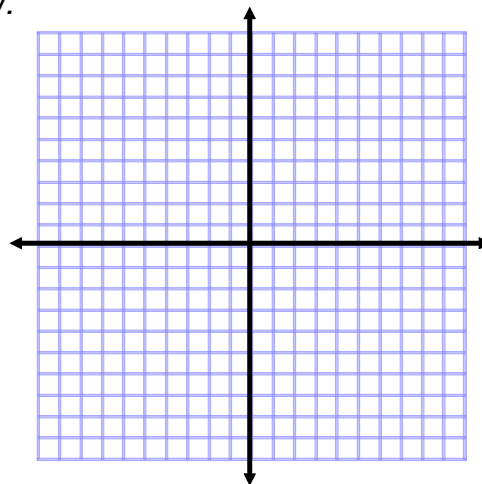
Alg II Chapter 2 Wups #1 9/13/10

Given the equation, fill in the table with values.

$$y = -4x + 15$$

x	-2	-1	0	1	2	3
y						

Write each pair of numbers as a coordinate pair (i.e, (x,y)). Then plot each coordinate in the coordinate plane below.



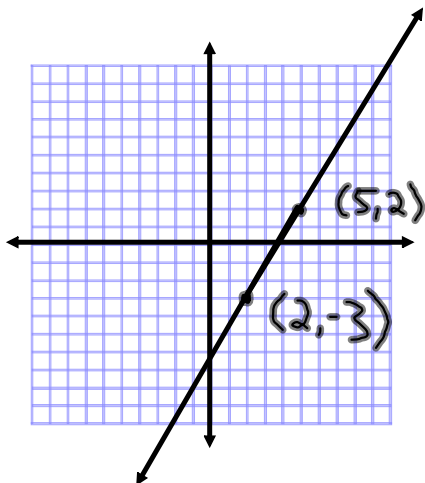
Alg II Chapter 2 Wups #2 9/20/10

For each function, Identify the slope.

①

x	2	5	8	11
y	10	4	-2	-8

②



③ $(3, 4) + (-2, 4)$

Given that $f(x) = 2x^2 + 1$, Find each of the following:

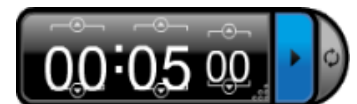
④

$f(-3)$

⑤

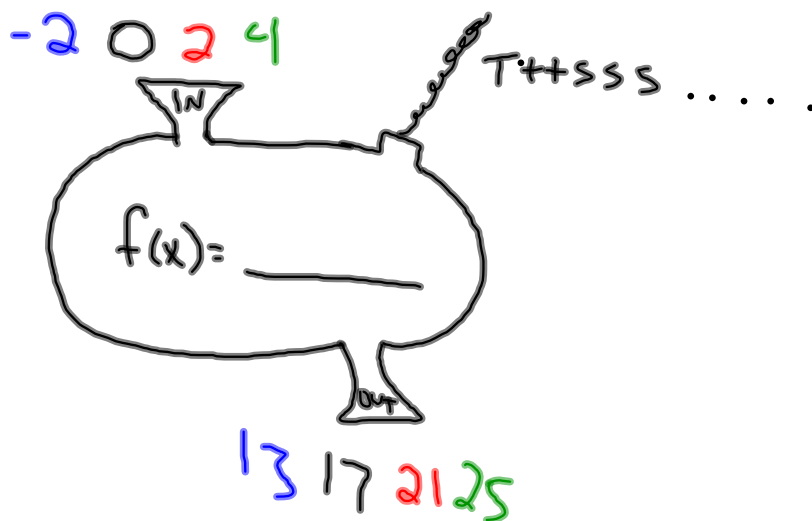
$f(2)$

Alg II Chapter 2 Wups #3 9/21/10



① John is working out trying to gain weight and get buff! After the first month John weighed 150 lbs. After the fifth month he weighed 182 lbs. Find the average RATE OF CHANGE (lbs. per month) through the first five months of John's training.

② Find the function that represents the function machine. Then evaluate $f(-10)$.



Alg II Chapter 2 Wups #4 9/27/10



① Find the equation of the line that is perpendicular to $y = 3x + 6$ and passes through the point $(-6, -1)$.

② Given a function in words, find the other three representations of the function.

Equation

Table

Graph

Words

A motorist lights an emergency flare after getting a flat tire. After burning for 6 minutes, the flare is 13 inches long. After burning for 20 minutes, it is 6 inches long.

WRITING AND GRAPHING Write and graph a direct variation equation that has the given ordered pair as a solution.


3. $(2, 6)$

4. $(-3, 12)$


5. $(6, -21)$

6. $(4, 10)$

38. **SCUBA DIVING** The time t it takes a diver to ascend safely to the surface varies directly with the depth d . It takes a minimum of 0.75 minute for a safe ascent from a depth of 45 feet. Write an equation that relates d and t . Then predict the minimum time for a safe ascent from a depth of 100 feet.

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39. **WEATHER** Hail 0.5 inch deep and weighing 1800 pounds covers a roof. The hail's weight w varies directly with its depth d . Write an equation that relates d and w . Then predict the weight on the roof of hail that is 1.75 inches deep.

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Alg II 2.3 Exit Ticket 9/20/10

Given that $f(x) = 4x - 6$, *Find each of the following:*

1) Create a in/out table with at least 4 coordinates.

2) Find:

- The slope of the function
- The y-intercept of the function

3) Graph the table of values and the Function.

